GOVERNMENT OF INDIA
WATER RESOURCES, RIVER DEVELOPMENT AND GANAGA REJUVENATION
LOK SABHA

UNSTARRED QUESTION NO:1526
ANSWERED ON:09.03.2017
Flood Forecasting Stations
Noor Smt. Mausam

Will the Minister of WATER RESOURCES, RIVER DEVELOPMENT AND GANAGA REJUVENATION be pleased to state:

(a) the details of various organizations dedicated for flood forecasting in the country;
(b) the details of cost effective measures taken by the Government for the purpose;
(c) whether there are any reports of delay and inaccuracy in forecasting of floods and transmitting data of the same especially about flood prone inter-State rivers, if so, the details thereof and the corrective action taken thereon;
(d) the details of flood forecasting stations established in West Bengal; and
(e) whether the Government proposes to establish more flood forecasting stations to monitor the flood situation prevalent in the country especially West Bengal, if so, the details thereof?

Answer

THE MINISTER OF STATE FOR WATER RESOURCES, RIVER DEVELOPMENT AND GANGA REJUVENATION

(DR. SANJEEV KUMAR BALYAN)

(a) Central Water Commission started flood forecasting service in the year 1958 by establishing first scientific flood forecasting unit (FFU) at Delhi for issuing water level forecasts of Yamuna for the National Capital, Delhi. A Flood Forecast and Warning Organisation was set up in 1969 to establish forecasting sites on interstate rivers in the country and 41 forecasting sites were added in 1969. Up to XI Plan, Central Water Commission had set up a network of 175 Flood Forecasting Stations which included Inflow forecasting for 28 reservoirs covering 18 States/UTs. At present there are 199 flood forecasting stations which include inflow forecasting for 48 reservoirs covering 22 States/UTs. The details of institutions associated with flood forecasting are at Annexure-I.

(b) Currently, on an average 6000 flood warnings are issued annually with an accuracy of above 96%. It is expected that with expanded network of flood forecast systems, these would go upto 10,000 annual warnings covering hitherto uncovered area with an enhanced lead time of upto 72 hours. This would give community enough time to ensure preventive action to save life and property.

(c) There is no report of delay in flood forecasting services by CWC within its established network. The network is being expanded to cover more flood prone areas of the country. The rainfall-runoff based mathematical models utilizing observed rainfall, Automatic Weather Station(AWS)/Automatic Rain Gauge(ARG) data and Quantitative Precipitation Forecast(QPF) of IMD for more warning/lead time say up to 3 days is being adopted in select basins in formulation of forecast.

Contd. P2/-

(d) The details of existing flood forecasting stations in West Bengal are as follows :

Sr No	Site Name	Local River	District
1	Gheropara	Ajoy	Birbhum
2	Messanjore Dam	Mayurakshi	Dumka
3	Tilpara Barrage	Mayurakshi	Birbhum
4	Narayanpur	Mayurakshi	Murshidabad
5	Domohani Road Bridge	Teesta	Jalpaiguri
6	Ghugumari	Torsa	Cooch Behar
7	Mathabhanga	Jaldhaka	Cooch Behar
8	Jaldhaka NH-31	Jaldhaka	Jalpaiguri
9	Toofanganj	Raidak-1	Cooch Behar
10	Farakka	Ganga	Murshidabad
11	Durgapur Barrage	Damodar	Burdwan
12	Harinkhola	Mundeswari	Hoogly
13	Kangsabati Dam	Kangsabati	Bankura
14	Mohanpur	Kangsabati	Medhinipur

Inflow forecasts are issued for Messanjore Dam, Tilpara Barrage, Farakka, Durgapur Barrage & Kangsabati Dam and level forecasts for rest of the stations.

(e) This Ministry has approved a Plan Scheme during XII Plan for Rs.281 crore for flood forecasting, modernisation and expansion of the flood forecasting network for automatic data collection, expeditious transmission and flood forecast dissemination. The Flood Forecasting network is being expanded to 275 flood forecasting stations covering 25 States/UTs. Simultaneously, the support

network of hydrological observation sites would be increased to 1118, out of which 1074 stations would be on an automatic satellite based telemetry system.

New forecasting stations have been selected on the basis of requests received from State Governments and priorities among them. As no request was received from the West Bengal Government, no new forecasting station is planned under XII Plan in West Bengal State.

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ANNEXURE-I

ANNEXURE REFERRED TO IN REPLY TO PART (a) OF LOK SABHA UNSTARRED QUESTION NO.1526 FOR ANSWER ON 09.03.2017 REGARDING "Flood Forecasting Stations".

Details of institutions associated with flood forecasting in India

Sr No	Institutions	Ministry/ Department	Parameter Observed/ Associated Activities
1	Central Water Commission (CWC)	Ministry of Water Resources, River Development & Ganga Rejuvenation	River Monitoring & Flood Forecasting
2	Indian Meteorological Department (IMD)	Ministry of Earth Sciences	Weather monitoring & forecasting
3	National Remote Sensing Centre (NRSC)	Department of Space	Satellite observation
4	State Governments		- Warning & Mitigation
5	National Disaster Management Authority (NDMA)		- Disaster related policy formulation
6	Union Ministry of Home Affairs		- Overall inter-agency coordination

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